(FILE 'HOME' ENTERED AT 19:50:32 ON 17 OCT 2000)

FILE 'DPCI' ENTERED AT 19:50:38 ON 17 OCT 2000
L1 1 S US5773520/PN
SEL PN.G

FILE 'CAPLUS' ENTERED AT 19:51:12 ON 17 OCT 2000

L2 1 S E1/PN

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ANSWER 1 OF 1 CAPLUS COPYRIGHT 2000 ACS
    1999:468133 CAPLUS
     Acrylic flexible light pipe of improved thermal stability
L2
     Abramowicz, Mark Allan; Hallden-Abberton, Michael Paul; Ilenda, Casmir
AN
DN
TI
     Stanislaus; Work, William James
     Rohm and Haas Co., USA
PΑ
     U.S., 7 pp.
     CODEN: USXXAM
SO
     Patent
 \mathbf{DT}
     English
      ICM G02B001-04
 LΑ
 IC
      ICS B29C047-88
      38-3 (Plastics Fabrication and Uses)
      385143000
      Section cross-reference(s): 73
 CC
                                            APPLICATION NO. DATE
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 FAN.CNT 1
                       KIND DATE
                                                            19971014 <--
       ______
                                            US 1997-950020
       A crosslinkable core mixt. for a subsequently-cured composite contains a
       thermoplastic core polymer having a wt. av. mol. wt. of 2,000-250,000
       daltons and a vinyl end-group content of <0.5 per 1000 monomer units, the
  PΙ
       core mixt. comprising (a) a thermoplastic core polymer comprising (i)
  AB
       80-99.9% of polymd. units of a C1-18 alkyl acrylate or mixts. thereof
       up to 50% of the C1-18 alkyl acrylate of polymd. units of a C1-18 alkyl
       methacrylate; (ii) 0.1-18.2% of polymd. units of a functionally reactive
        monomer, and (iii) 0-10% of polymd. units of a refractive index
   with
        monomer selected from styrene, benzyl acrylate, benzyl methacrylate,
        phenylethyl acrylate or phenylethyl methacrylate; (iv) 0.002-0.3%
   increasing
        mols. of or of decompn. products of an initiator of polymn., including
    residual
         groups on the thermoplastic core polymer, the initiator having a
         at 60 C. of 20 to 400 min; (v) 0.2-2.0\% of residual mols. of or of
    end
         decompn. products of a chain transfer agent, including end groups on the
    half-life
         thermoplastic core polymer; (b) from 0.1 to 10%, based on the
         crosslinkable core mixt. wt., of a reactive additive. It has been found
         that improved thermal stability, as reflected in color formation, can be
          imparted by adjusting the polymn conditions to produce the uncured core
          polymer of the core/clad construction with a much reduced terminal vinyl
          content, preferably below 0.5 vinyl groups/1000 monomer units.
          acrylic polymer light pipe thermal stability
             (acrylic flexible light pipe of improved thermal stability)
          Optical materials
     ST
             (light pipes, flexible; acrylic flexible light pipe of improved
     \mathbf{IT}
          optical instruments
           31986-96-6P, Ethyl acrylate, 3-methacryloxypropyltrimethoxysilane
      thermal
           RL: DEV (Device component use); IMF (Industrial manufacture); PRP
      IT
           (Properties); PREP (Preparation); USES (Uses)
              (acrylic flexible light pipe of improved thermal stability)
       RE.CNT 6
       (1) Bertelo; US 5773520 1998
       RE
       (2) Bigley; US 5406641 1995
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- (3) Bigley; US 5485541 1996 CAPLUS (4) Ho; US 5555525 1996 CAPLUS (5) Trabert; US 5318737 1994 (6) Zarian; US 5298327 1994